

THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Previously presented) A sterilizing and disinfecting apparatus for spraying a sterilizing and disinfecting chemical including alcohol into a target space, comprising:

a spray gun having an end nozzle;

a chemical container containing the chemical, attached to said spray gun;

a gas cylinder filled with a compressed carbon dioxide gas as a carrier gas;

a pressure reducing valve, attached near an outlet of said gas cylinder, for decompressing the gas discharged from the outlet to a predetermined pressure; and

a gas hose directly connected to the pressure reducing valve and the spray gun,

wherein the spray gun sprays the chemical into the target space by a function of the carrier gas injected from the end nozzle, and

wherein the spray gun, the end nozzle and the gas hose are set to have dimensions that permit a feed rate of the gas that does not cause said carbon dioxide gas to freeze due to decompressing in the pressure reducing valve during continuous spray for at least 15 minutes.

2. (Original) The sterilizing and disinfecting apparatus according to Claim 1, wherein the gas cylinder, pressure reducing valve and gas hose are mounted on a common truck shared by the spray gun and chemical container.

3. (Original) The sterilizing and disinfecting apparatus according to Claim 2, wherein the chemical container is detachably attached to the spray gun.

4. (Original) The sterilizing and disinfecting apparatus according to Claim 1, wherein the chemical container is detachably attached to the spray gun.

5. (Previously Presented) The sterilizing and disinfecting apparatus according to Claim 1, wherein the chemical in the chemical container is a sterilizing and disinfecting chemical containing alcohol.